



UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S) LI, et al. GROUP ART UNIT: 2419
APPLN. NO.: 10/631,257 EXAMINER: CRISS, Andrew W
FILED: July 31, 2003 Confirmation No. 1623
TITLE: IMPROVEMENTS TO SIGNAL PROCESSING OF TRANSMISSION
PACKETS

DECLARATION OF FAN WANG
UNDER 37 C.F.R. 1.132

Sir:

I, Fan Wang, declare that:

1. I am a citizen of the United States of America and a resident of Illinois, Chicago.
2. I hold a Ph.D. that I was awarded in 1999 in the field of Signal processing from School of Electrical and Computer Engineering, Purdue University, West Lafayette, Indiana.
3. I have been employed as an Engineer by Motorola, Inc. since 1999 and I am currently a Distinguished Member of Technical Staff at Motorola, Inc specializing in signal processing and have the following publications to my name:

- [1] F. Wang, A. Ghosh, C. Sankaran, P. Fleming, F. Hsieh and S. Benes, Mobile WiMAX Systems: Performance and Evolution, *IEEE Communications Magazine*, 46(10): 41-49, October 2008.
- [2] F. Wang, J. Tan and G. (Ye) Li, Precoded Single Carrier Data Transmission with Orthogonal Frequency Domain Multiplexing Pilots, In *Proceedings of the IEEE Conference on Communications (ICC)*, Beijing, China, 2008.
- [3] F. Hsieh, F. Wang, A. Ghosh, Link Performance of WiMAX PUSC, In *Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC)*, Las Vegas, NV, 2008.
- [4] R. Ratasuk, A. Ghosh, F. Wang, W. Xiao and N. Whinnett, Rapid Channel Quality Based Power Control for High Speed Channels, US patent 7,242,956.

4. I have reviewed the specification, claims and drawings of the Application Serial No. 10/631,257.
5. I have read the claim rejections in the detailed action under 35 USC 112 dated October 20th 2008 in Application Serial No. 10/631,257 and disagree with the Examiner's opinion. I respectfully assert that the disclosure under Application Serial No. 10/631,257 sufficiently



describes in enough detail for me make and use the invention as claimed in the instant application. There are a number of ways in which the "obtaining pre-defined modulated transmission protocol bits stored in a memory" can be actually performed. More specifically, upon my reading of the specification, claims and drawings of the Application Serial No. 10/631,257 I could easily perform and use the invention as claimed by actually modulating the limited number of possible protocol transmission bit sequences and then storing the modulated bits for future use. In other words, the "pre-defined modulated transmission protocol bits" can be determined offline by performing actual modulation on every protocol transmission bit sequence and storing each resulting modulated protocol transmission bit sequence in memory. The stored modulated protocol transmission bit sequences can be either loaded into a memory in a system for use in the method of Claim 1 or loaded into the memory of the communications unit in claim 17. Once loaded into memory the "obtaining pre-defined modulated transmission protocol bits stored in a memory" of claim 1 and the "a memory storing pre-defined modulated transmission protocol bits" of claim 17 are enabled.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States code and that such willful false statements may jeopardize the validity of the application or any patent issued thereron.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Fan Wang".

DATE: 12/11/2008

Fan Wang